

# CZH-LABS Electronics-Salon

Passive SPST-NO 30A series Power Relay Modules



## Feature:

- 1 / 2 / 4 / 8 relay channels to selectable.
- Tyco/TE T9AS1D12 series 30Amp power relay, coil voltage DC12V or DC24V to selectable.
- DIN rail mount or panel mount to selectable. DIN rail mount carrier can support width 35mm /32mm / 15mm rail.
- High quality terminal block connectors (output is real 30Amp high power terminal block).
- LED indicator for each relay action.
- Users can flexibly configured control signal mode according to controllers output.

## Relay characteristic:

- Rated Load (Resistive load): 30A at 250VAC, 20A at 28VDC.
- Action voltage:
  - 12V version: 10~15Vdc, recommended 12Vdc.
  - 24V version: 19~29Vdc, recommended 24Vdc.
- Action current (each relay channel):
  - 12V version: 80mA, at 12Vdc.
  - 24V version: 40mA, at 24Vdc.

## Terminal block characteristic:

- Input terminal:
  - Wire range 26-12AWG
  - Mechanical Torque 0.4Nm(3.5Lb-In.)
  - Strip length 7mm
  - Dimensions Pitch 5.0mm(.197")
  - Screws M2.5
  - Rated current 16 Amp
- Output terminal:
  - Wire range 26-10AWG
  - Mechanical Torque 0.5Nm(4.4Lb-In.)
  - Strip length 8mm
  - Dimensions Pitch 7.62mm(.3")
  - Screws M3
  - Rated current: 30 Amp
  - Rated voltage: 300V

## Signal control mode:

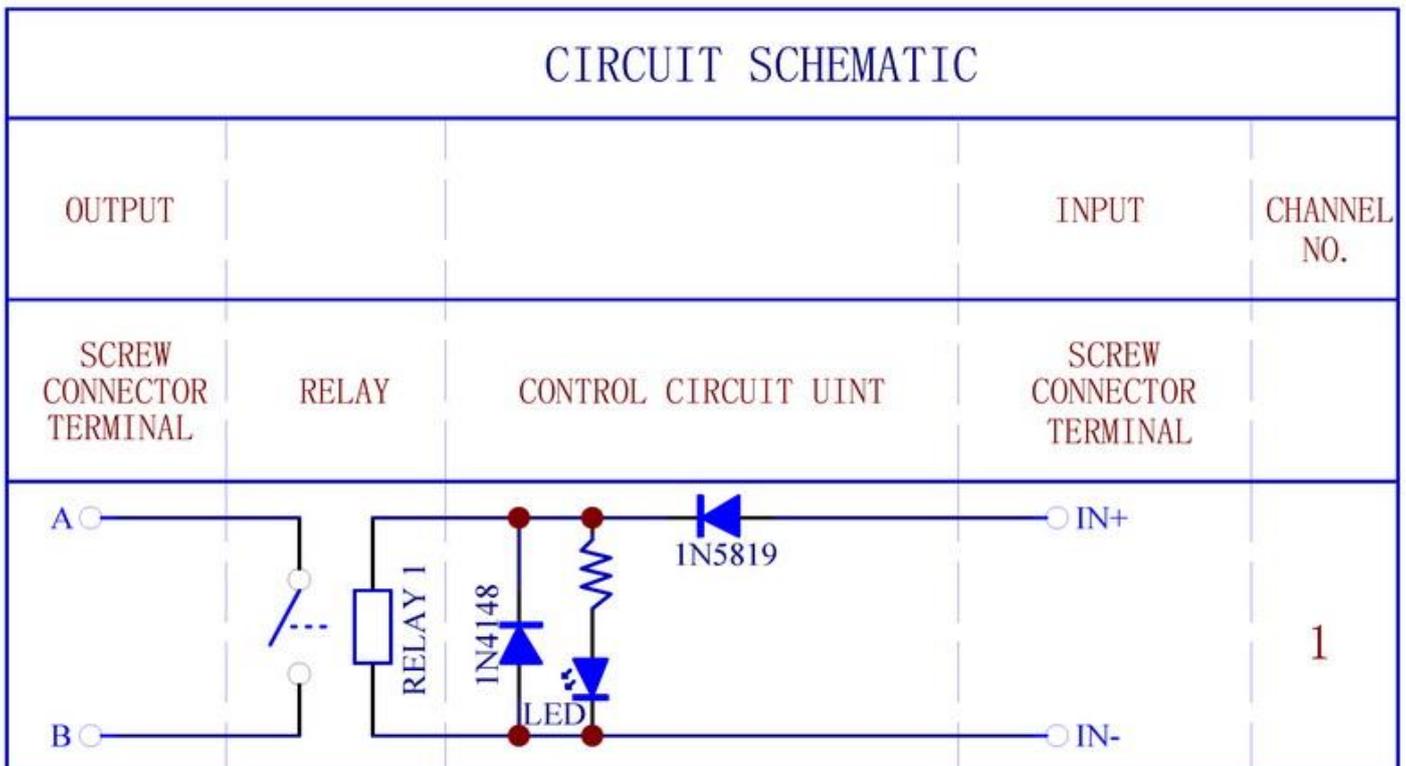
Users can flexibly configured according to the controller output:

1. Independent control of each relays.
2. Common positive.(for 2, 4, 8 channel version).
3. Common negative. (for 2, 4, 8 channel version).
4. Common positive and negative, all relays simultaneous action. (for 2, 4, 8 channel version).

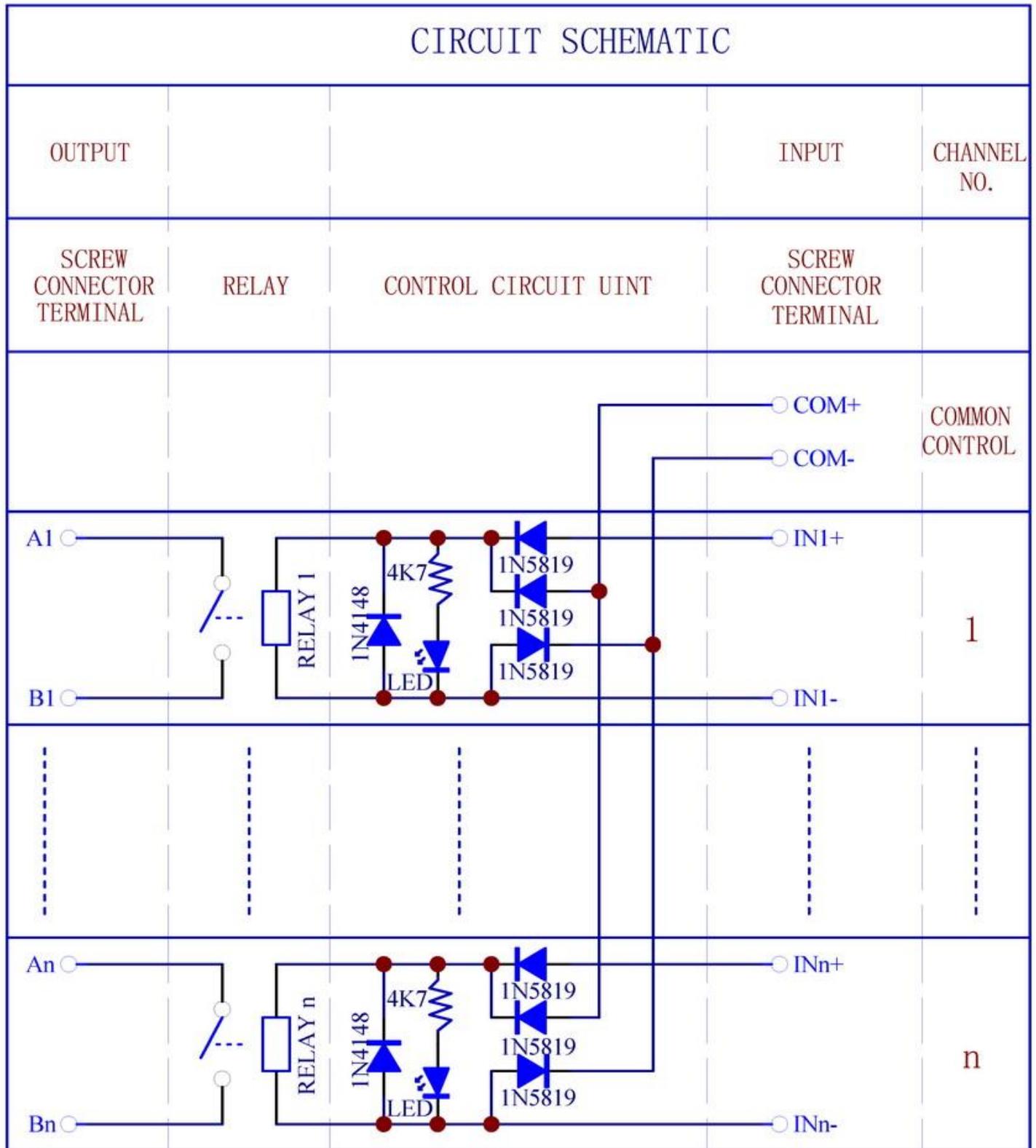
### Version list:

Part Number	Channel	Mount Type	Size (H x L x W)	Schematic
MD-D1012/12V	1	Panel mount	24 x 72.5 x 47.35mm	1
MD-D1012/24V				
MD-D1012T/12V		DIN rail mount	48 x 87 x 50mm	
MD-D1012T/24V				
MD-D1013/12V	2	Panel mount	24 x 72.5 x 60mm	2
MD-D1013/24V				
MD-D1013T/12V		DIN rail mount	48 x 87 x 63mm	
MD-D1013T/24V				
MD-D1014/12V	4	Panel mount	24 x 72.5 x 120mm	2
MD-D1014/24V				
MD-D1014T/12V		DIN rail mount	48 x 87 x 123mm	
MD-D1014T/24V				
MD-D1015/12V	8	Panel mount	24 x 72.5 x 225mm	2
MD-D1015/24V				
MD-D1015T/12V		DIN rail mount	48 x 87 x 228mm	
MD-D1015T/24V				

### Schematic 1, (for one channel):



**Schematic 2, (for 2 / 4 / 8 channels):**



## About signal control mode:

### 1, Independent control of each relays.

Use input terminal INx+ and INx-, not use COM+ COM-  
IN1+ IN1- control Relay 1, INn+ INn- control Relay n, each channel circuit is independent.

### 2, Common positive.(for 2, 4, 8 channel version).

Use input terminal INx- COM+, not use INx+ COM-  
COM+ connect power supply +(12V or 24V), IN1- low level signal control relay 1, INn- low level signal control relay n.

If your controller output signal is sink type, you can use the connect mode.

### 3, Common negative. (for 2, 4, 8 channel version).

Use input terminal INx+ COM-, not use INx- COM+

COM- connect controller GND(0V), IN1+ high level signal control relay 1, INn+ high level signal control relay n.

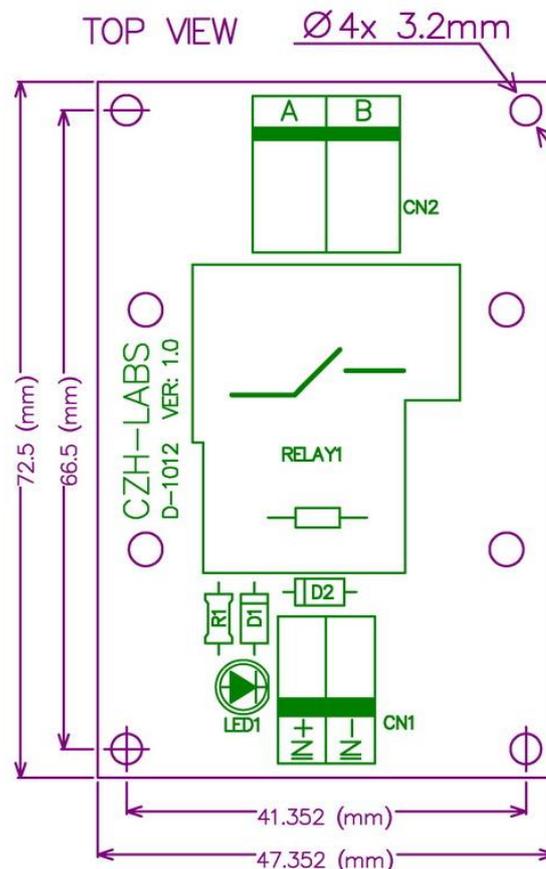
If your controller output signal is source type, you can use the connect mode.

### 4, Common positive and negative, all relays simultaneous action. (for 2, 4, 8 channel version).

Use input terminal COM+ COM-, not use INx+ INx-

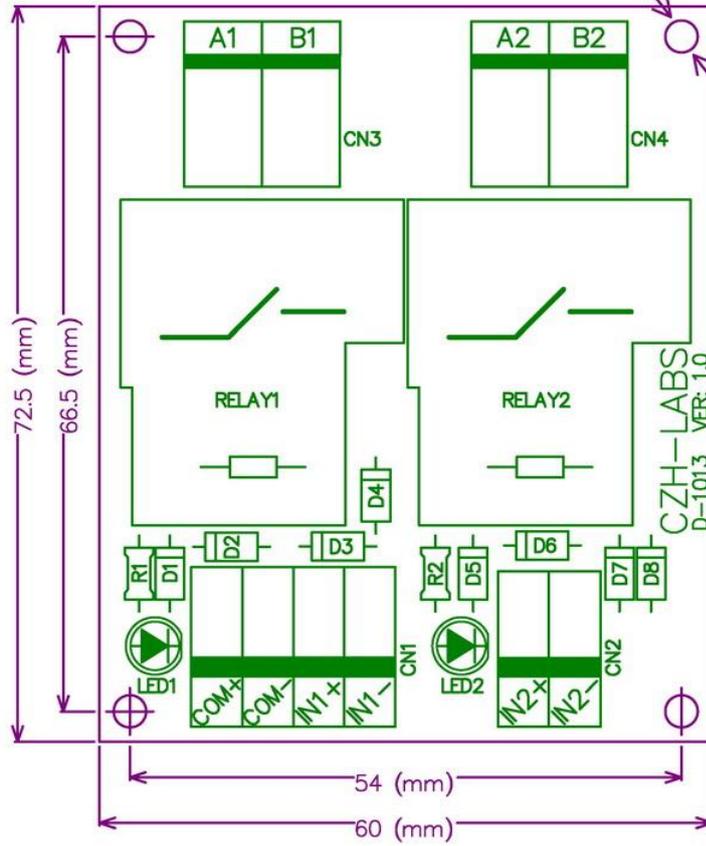
COM+ connect power supply +(12V or 24V), COM- connect GND(0V), all relay at same time action.

## Panel Mount Size:



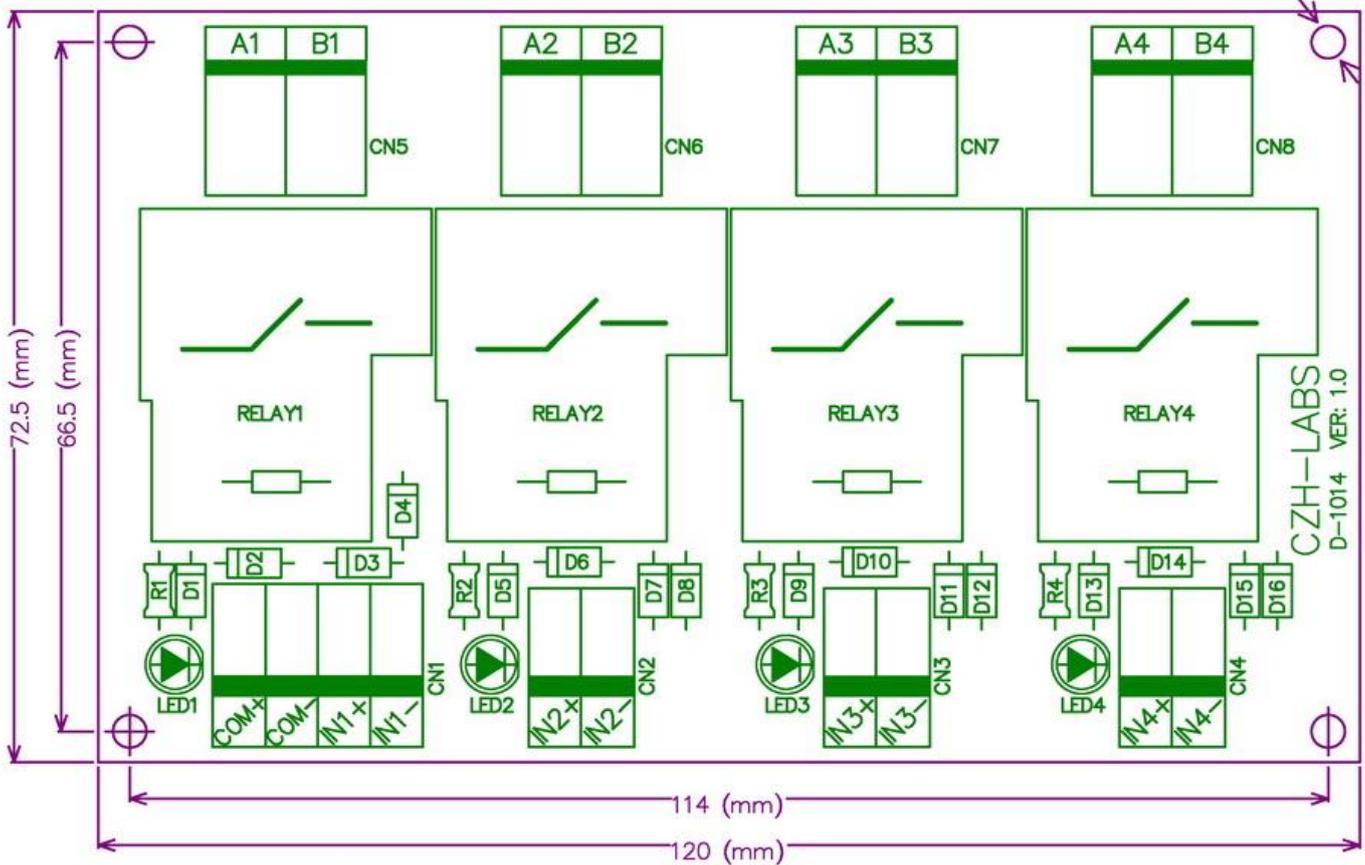
TOP VIEW

Ø4x 3.2mm



TOP VIEW

Ø4x 3.2mm





# DIN Rail Mount Size:

